



March 10th, 2014

Kevin Turner

On-Scene Coordinator

USEPA Emergency Response

8588 Rt. 148

Marion, IL 62959

RE: Monthly Progress Report No. 5 (March 2014)

Chemetco – Hartford, IL 62048

Dear Mr. Turner

This monthly progress report is submitted by Paradigm Minerals & Environmental Services to satisfy the requirements of the Consent Decree Case 3:00-cv-00670-DRH-DGW Document 209 approved on 9/13/13 to provide U.S. EPA with a monthly progress report about the ongoing activities at the former Chemetco Site in Hartford, IL.

1. Actions Taken During the previous Month to Comply with Consent Decree
 - Nothing to report at this time.
2. Summary of Data Received during the Reporting Period:
 - St. Louis Labs test results for crushed material.
3. Work Plans and other Deliverables Submitted during the Reporting Period:
 - Nothing to report at this time.
4. Activities Planned for the Next Reporting Period:
 - Scrap Metal- On going
 - Air Monitoring System- On going.
 - Processing Plant- Continue engineering efforts on plant design.
 - Zinc Bunker- Continue working on drying equipment to try and find a drying method that is not cost prohibitive.
 - North Polishing Pond Materials- drying material is ongoing.
 - Skulls/ reverts- Ongoing.

- Continue using Municipal Sweepers to sweep and vacuum the concrete around the property to control fugitive dust.
 - UMBM- Working out details concerning testing procedures to ensure the quality of the material being sent to buyers meets contractual obligations. When buyers are fully satisfied that material meets their expectations we will see an increase in production.
5. Describe any actual or anticipated increases to the quantity of process material or waste beyond the quantity that was used to calculate the amount of financial assurance.
- Not applicable at this time.
6. Problems Encountered, Anticipated Problems and Planned Resolutions of Past or Anticipated Problems:
- Logistics - A steady flow of about 50 containers per week are showing up now that the weather has improved and the shortage of containers in St. Louis has been resolved. At this time, it does not appear economically feasible to ship the super sacks via rail directly to the final US destination and then trans-load super sacks into containers prior to vessel loading. We are waiting on a proposal from the barge lines as another mode of transportation that will supplement the oversea containers. The first shipments of material to China should arrive at the end of March. We anticipate the shipping volume to increase to 100 plus containers per week once material is received and processed at the Chinese plant, and the buyer is satisfied with the quality of the material.
 - Material Quality - Initial testing with AH Knight revealed that the copper and tin content of the crushed material was lower than contract requirements. In an effort to improve the quality, we are screening out the fines. The fines have been found to have lower tin and copper content thereby reducing the overall concentration levels of the final product. The fines are returned to the source location where they will be used at a later date as feed stock for Paradigm's separation process when the plant is finalized. We are working out details for testing procedures to ensure the quality of the finished product meets contractual parameters.
7. Modifications to Approved Work Plans or Schedules:
- No changes to report at this time.
8. Summary off -site Shipments-
- See attachment

If you have any questions regarding this progress report, please contact either Roy Perez – Project Coordinator at (314) 809-9113 or myself- Alternate Project Coordinator at (314) 409-7283

Respectfully Submitted,

Steve Zuber

Paradigm Minerals & Environmental Services

3754 Chemetco Lane

Hartford, IL 62048

Cell: (314) 409- 7283

Material from hill
February 2014

Container	Copper reverts from hill (Pot:slag)	BL
2/3/2014 MSCU 626792-1	42,980	50112
2/7/2014 CAIU 285434-0	42,560	50113
2/7/2014 TCLU 290809-0	44,500	50114
2/7/2014 MEDU 128112-1	44,640	50115
2/7/2014 MSCU 365260-5	43,180	50116
2/18/2014 MEDU 164681-0	44,460	50120
2/19/2014 TCKU 233219-7	44,200	50121
2/20/2014 MSCU 353369-5	44,020	50124
2/21/2014 MSCU 309581-3	44,740	50125
2/24/2014 GESU 224861-8	42,900	50126
2/25/2014 MEDU 652120-4	44,900	50127
2/25/2014 TCLU 249132-3	44,420	50128
2/26/2014 IPXU 372713-8	42,600	50129
2/26/2014 MSCU 248282-3	44,080	50130
2/27/2014 TRHU 208926-0	44,180	50131
2/27/2014 MSCU 619759-4	44,360	50132
	702,720	351.36 tons

Material from crushing plant
February 2014

Mixed copper tin material

Date of Shipment	Bill of Lading #	Container # & Seal #	Weight Metric Ton
2/3/2014	50629	TGHU 398181-2 C-028426	19.431
2/3/2014	50630	CMAU 193151-1 C-028427	19.704
2/3/2014	50631	CMAU 152468-7 C-028428	19.801
2/3/2014	50632	GVCU 204672-8 C-028429	19.988
2/4/2014	50633	CAXU 692607-6 C-028430	19.599
2/4/2014	50634	CMAU 206801-0 C-028431	20.004
2/5/2014	50635	ECMU 140850-3 C-028432	19.755
2/6/2014	50637	XINU 102438-0 C-028434	20.128
2/6/2014	50638	GESU 208774-5 C-028435	19.700
2/10/2014	50639	KKTU 716907-9 C-028436	19.578
2/10/2014	50640	CLHU 355689- C-028431	20.150
2/10/2014	50641	KKTU 752942-6 C-028438	20.204
2/10/2014	50642	KKTU 771759-4 C-028439	19.616
2/10/2014	50643	TCKU 345343-9 C-028440	20.117
2/10/2014	50644	TRLU 975330-0 C-028441	19.778
2/10/2014	50645	KKTU 783017-3 C-028442	20.297
2/10/2014	50646	TCKU 134626-2 C-028443	19.976
2/11/2014	50647	KKTU 795886-3 C-028444	20.027
2/11/2014	50648	GLDU 933209-6 C-028445	19.438
2/11/2014	50649	KKTU 756182-9 C-028447	18.551
2/11/2014	50650	GLDU 932120-8 C-028448	20.112
2/11/2014	50651	BSIU 266300-0 C-028449	19.577
2/11/2014	50652	KKTU 740119-0 C-028450	19.078
2/11/2014	50653	KKTU 700491-0 C-028451	19.940
2/11/2014	50654	IPXU 362589-8 C-028452	20.096
2/12/2014	50655	KKTU 769868-4 C-028453	20.232
2/12/2014	50656	TCKU 158590-3 C-028454	19.592
2/12/2014	50657	KKTU 789788-1 C-028455	20.141
2/14/2014	50658	MEDU 374874-5 C-028456	19.178
2/14/2014	50659	MEDU 197386-0 C-028457	19.992
2/14/2014	50660	GLDU 508273-8 C-028458	20.240
2/14/2014	50661	MEDU 620465-8 C-028459	19.436
2/17/2014	50662	MEDU 162040-0 C-028460	19.854
2/17/2014	50663	MEDU 247156-9 C-028461	20.162

673.472

Mixed copper tin material

Date of Shipment	Bill of Lading #	Container # & Seal #	Weight Metric Ton
2/24/2014	50664	CAXU 211923-0 C-028472	20.299
2/24/2014	50665	MEDU 610746-8 C-028480	18.868
2/24/2014	50666	MEDU 225643-7 C-028474	20.218
2/24/2014	50667	FCIU 395799-5 C-028476	18.566
2/24/2014	50668	TCLU 291144-7 C-028477	19.525
2/24/2014	50669	FSCU 772174-9 C-028481	19.084
2/24/2014	50670	GLDU 947024-3 C-028478	20.002
2/24/2014	50671	CMAU 203764-1 C-028469	19.280
2/24/2014	50672	CARU 371462-7 C-028470	19.087
2/24/2014	50673	ECMU 198768-4 C-028471	18.889
2/24/2014	50674	TEMU 324132-6 C-028473	19.291
2/24/2014	50675	FCIU 292918-1 C-028475	19.756
2/24/2014	50676	ECMU 170298-7 C-028479	18.757
2/24/2014	50677	MEDU 304651-7 C-028482	18.687
2/25/2014	50678	ECMU 148778-1 C-028483	19.072
2/25/2014	50679	MSCU 370656-9 C-028484	18.860
2/25/2014	50680	UNIU 203907-6 C-028485	19.325
2/26/2014	50681	ECMU 128197-5 C-028486	19.404
2/26/2014	50682	CMAU 134300-9 C-028487	18.980
2/26/2014	50683	MSCU 692399-5 C-028488	19.099
2/26/2014	50684	DFSU 284915-6 C-028489	19.183
2/26/2014	50685	MEDU 358987-5 C-028490	19.582
2/26/2014	50686	MSCU 244908-6 C-028491	18.846
2/27/2014	50687	MSCU 316077-6 C-028492	19.275
2/26/2014	50688	ECMU 128253-9 C-028493	19.877
2/27/2014	50689	MEDU 362340-8 C-028494	19.575
2/27/2014	50690	TTNU 317725-6 C-028495	19.696
2/27/2014	50691	CAXU 688671-2 C-028496	18.726
2/27/2014	50692	MEDU 175849-3 C-028497	19.280
2/27/2014	50693	MSCU 696621-4 C-028498	19.200
2/28/2014	50694	TRLU 931100-0 C-028499	19.248
2/28/2014	50695	GLDU 547721-3 C-028500	18.850
2/28/2014	50696	IPXU 387440-0 C-028501	18.787
2/28/2014	50697	MSCU 667255-0 C-028502	19.027

654.201

****Note: Bill of lading 50636 was voided. Had to unload container because of bad floor.

Grand Total for February 2014

1,327.673 metric tons

Grossman Steel Shipments
February 2014

Date of Shipment	B/L #	Grossman Bin #	Material	Our Weight	Net Ton	Grossman Weight	Net Ton
2/18/2014	50117	X30101	unprepared p&s	10,760	5.38	13,620	6.81
2/18/2014	50118	x3081	unprepared p&s	20,040	10.02	19,820	9.91
2/18/2014	50119	x30150	unprepared p&s	14,500	7.25	14,880	7.44
2/20/2014	50122	x30110	unprepared p&s	11,800	5.90	10,420	5.21
2/20/2014	50123	x30101	unprepared p&s	5,860	2.93	6,020	3.01
Grand Total for February 2014					31.48		32.38